TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2016-12-12-01** **Date: 16-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-05(c)
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-12-16

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	150	202	12120	25.245	2082.9	2066.0	Not less than 1800Kg/m^3
2	401	152	201	12251	25.114	2049.9		
3	402	150	200	12060	24.905	2065.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	21.630	20.900	3.49	3.67	Shall not be more than 10% by mass
2	21.280	20.530	3.65		
3	21.698	20.890	3.87		

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : **2016-12-12-01-05(c)**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	100	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	101	201	
3	400	101	201	
4	400	100	200	
5	401	102	202	
6	402	100	202	
7	401	103	200	
8	400	100	201	
9	400	100	201	
10	402	100	200	
11	401	103	201	
12	401	102	200	
13	401	102	200	
14	402	101	200	
15	400	102	201	
16	402	100	203	
17	401	101	202	
18	400	100	200	
19	402	101	202	
20	401	100	201	
Average of 20	**401**	**101**	**201**	

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : 2016-12-12-01-05(c)

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	100	40100	205.5	5.1	4.7
2	402	101	40602	198.2	4.9	
3	400	101	40400	178.9	4.4	
4	400	100	40000	188.2	4.7	
5	401	102	40902	186.5	4.6	
6	402	100	40200	199.2	5.0	
7	401	103	41303	190.3	4.6	
8	400	100	40000	188.2	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2016-12-12-01** **Date: 16-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-05(b)
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-12-16

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	100	202	8080	18.245	2258.0	2261.4	Not less than 1800Kg/m^3
2	401	100	201	8060	18.214	2259.8		
3	402	101	200	8120	18.405	2266.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	20.630	19.900	3.67	3.86	Shall not be more than 10% by mass
2	20.280	19.530	3.84		
3	20.698	19.890	4.06		

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : **2016-12-12-01-05(b)**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	100	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	101	201	
3	400	101	201	
4	400	100	200	
5	401	102	202	
6	402	100	202	
7	401	103	200	
8	400	100	201	
9	400	100	201	
10	402	100	200	
11	401	103	201	
12	401	102	200	
13	401	102	200	
14	402	101	200	
15	400	102	201	
16	402	100	203	
17	401	101	202	
18	400	100	200	
19	402	101	202	
20	401	100	201	
Average of 20	**401**	**101**	**201**	

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : 2016-12-12-01-05(b)

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	100	40100	205.5	5.1	4.8
2	402	101	40602	198.2	4.9	
3	400	101	40400	178.9	4.4	
4	400	100	40000	188.2	4.7	
5	401	102	40902	186.5	4.6	
6	402	100	40200	199.2	5.0	
7	401	103	41303	190.3	4.6	
8	400	100	40000	201.3	5.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2016-12-12-01** **Date: 16-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-05(a)
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-12-16

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	200	202	16160	32.240	1995.0	1990.7	Not less than 1800Kg/m^3
2	401	200	201	16120	32.140	1993.8		
3	402	201	200	16160	32.050	1983.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.230	32.900	4.04	3.69	Shall not be more than 10% by mass
2	34.780	33.530	3.73		
3	33.980	32.890	3.31		

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : **2016-12-12-01-05(a)**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	201	
3	400	201	201	
4	400	200	200	
5	401	202	202	
6	402	200	202	
7	401	203	200	
8	400	200	201	
9	400	200	201	
10	402	200	200	
11	401	203	201	
12	401	202	200	
13	401	202	200	
14	402	201	200	
15	400	202	201	
16	402	200	203	
17	401	201	202	
18	400	200	200	
19	402	201	202	
20	401	200	201	
Average of 20	**401**	**201**	**201**	

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Lab ID : **CP-2016-12-12-01** **Date: 16-12-16**

Sample ID No : 2016-12-12-01-05(a)

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	333.5	4.2	4.3
2	402	201	80802	345.0	4.3	
3	400	201	80400	360.5	4.5	
4	400	200	80000	339.2	4.2	
5	401	202	81002	342.5	4.2	
6	402	200	80400	325.2	4.0	
7	401	203	81403	386.5	4.7	
8	400	200	80000	365.4	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2016-12-12-01** **Date: 15-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-12-16
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	135	219	21.9	78.1	60-95	75-100	85-100	95-100
4	1.18 mm	179	398	39.8	60.2	30-70	55-90	75-100	90-100
5	600 micron	187	585	58.5	41.5	15-34	35-59	60-79	80-100
6	300 micron	175	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	150	910	91.0	9.0	0-10	0-10	0-10	0-15
8	Pan	90	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-12-12-01** **Date: 15-12-16**

Sample ID No : 2016-12-12-01-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.55	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	5.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-12-12-01** **Date: 15-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-12-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2750	2993	59.9	40.1	25-55
4	4.75 mm	1660	4653	93.1	6.9	0-10
5	Pan	347	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-12-12-01** **Date: 15-12-16**

Sample ID No : 2016-12-12-01-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.2**	_
7	Aggregate crushing Value(%)	**22.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.7**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-12-12-01** **Date: 15-12-16**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-12-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	287	287	1.9	98.1	90-100
3	20 mm	5321	5608	37.4	62.6	30-70
4	10 mm	4654	10262	68.4	31.6	10-35
5	4.75 mm	4334	14596	97.3	2.7	0-5
6	Pan	404	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-12-12-01** **Date: 15-12-16**

Sample ID No : 2016-12-12-01-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.7**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.54**	_
6	Water Absorption(%)	**0.24**	_

Note:

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-12-01** **Date: 14-12-16**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01

Agency : Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : EE(Project)Ynk Zone/WO/26/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-12-16

Sample ID No : 2016-12-12-01-01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 13-12-16

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.52	_
2	Finess by Air permeablity method (m^2/kg, Min)	254.5	225m^2/kg, Min
3	Density (gm/cc)	3.21	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-12-12-01** **Date: 10-01-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class rooms, Toilet and Providing School Accessories to Yelahanka Government Junior College Yelahanka Bangalore in ward no.01
Agency	:	Sri.Gangulu Reddy.A, No.490B, 12th Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	EE(Project)Ynk Zone/WO/26/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-16
Sample ID No	:	2016-12-12-01-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-12-16

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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